## SIEMENS

## Data sheet

## 3RF2120-3AA24



Semiconductor relay, 1-phase 3RF2 Width 22.5 mm, 20 A 48-460 V / 110-230 V AC Ring cable connection

product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF21
manufacturer's article number	
<ul> <li>1 of the accessories that can be ordered</li> </ul>	3RF2900-3PA88
<ul> <li>4 of the accessories that can be ordered</li> </ul>	3RE2920-0GA36
product designation	
<ul> <li>1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>4 of the accessories that can be ordered</li> </ul>	load monitoring
General technical data	
product function	zero-point switching
power loss [V·A] maximum	28.6 VA
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	28.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	28.6 W
<ul> <li>without load current share typical</li> </ul>	3.5 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	AC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	48 460 V
<ul> <li>at 60 Hz rated value</li> </ul>	48 460 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	
• at 50 Hz	40 506 V
• at 60 Hz	40 506 V
operational current	
<ul> <li>at AC-51 rated value</li> </ul>	20 A
<ul> <li>according to UL 508 rated value</li> </ul>	20 A
ampacity maximum	20 A
operational current minimum	100 mA

rate of voltage rise at the thyristor for main contacts	500 V/µs
maximum permissible	4 000 1/
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	200 A
I2t value maximum	200 A <sup>2</sup> ·s
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	440 2201/
• at 50 Hz	110 230 V 110 230 V
• at 00 m2	110 250 V
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	
<ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V
<ul> <li>at 60 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>	40 V
control supply voltage	
<ul> <li>at AC initial value for signal &lt;1&gt; detection</li> </ul>	90 V
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
Control current at AC rated value	15 mA
OFF-delay time	40 ms; additionally max. one half-wave
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/mounting/dimensions	
fastening method	screw fixing
fastening method • side-by-side mounting	screw fixing Yes
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	screw fixing Yes M4
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum	screw fixing Yes M4 1.5 N·m
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum	screw fixing Yes M4 1.5 N·m 13 lbf·in
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum height width	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth Connections/ Terminals	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
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fastening method         • side-by-side mounting         design of the thread of the screw for securing the         equipment         tightening torque of fixing screw maximum         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection
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fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts • for auxiliary and control contacts • for auxiliary and control contacts • finely stranded with core end processing - finely stranded without core end processing • at AWG cables for auxiliary and control contacts	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12)
fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         tightening torque of fixing screw maximum         tightening torque [lbf-in] of fixing screw maximum         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts for JIS cable lug         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         - solid         - finely stranded with core end processing         - finely stranded without core end processing         • at AWG cables for auxiliary and control contacts         tightening torque	screw fixing Yes M4 1.5 N·m 13 lbf in 85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12)
fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         tightening torque of fixing screw maximum         tightening torque [lbf-in] of fixing screw maximum         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for main contacts for JIS cable lug         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         type of connectable conductor cross-sections         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         - solid         - finely stranded with core end processing         - finely stranded without core end processing         • at AWG cables for auxiliary and control contacts         tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts	screw fixing Yes M4 1.5 N·m 13 lbf-in 85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5 DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25 $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ $1x (0.5 2.5 mm^2), 2x (0.5 1.0 mm^2)$ 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m
fastening method         • side-by-side mounting         design of the thread of the screw for securing the equipment         tightening torque of fixing screw maximum         tightening torque [lbf·in] of fixing screw maximum         height         width         depth         Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         type of connectable conductor cross-sections         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         type of connectable conductor cross-sections         • for DIN cable lug for main contacts         type of connectable conductor cross-sections         • for auxiliary and control contacts         — solid         — finely stranded with core end processing         • at AWG cables for auxiliary and control contacts         tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals	screw fixing Yes M4 1.5 N·m 13 lbf-in 85 mm 22.5 mm 48 mm
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fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts for JIS cable lug • for DIN cable lug for main contacts type of connectable conductor cross-sections • for auxiliary and control contacts type of connectable conductor cross-sections • for auxiliary and control contacts • for auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary and control contacts tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals	screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm Ring cable lug connection ring terminal lug connection JIS C 2805 R 2-5, 5, 5-5, 8-5, 14-5 DIN 46234 -5-2, 5, -5-6, -5-10, -5-16, -5-25 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.0 mm <sup>2</sup> ) 1x (AWG 20 12) 2 2.5 N·m 0.5 0.6 N·m 7 10.3 lbf·in 4.5 5.3 lbf·in
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<ul> <li>of the auxiliary</li> </ul>	and control contacts		M3			
stripped length of th	ne cable					
<ul> <li>for main contact</li> </ul>	cts		7 mm			
<ul> <li>for auxiliary and</li> </ul>	d control contacts		7 mm			
Safety related data						
protection class IP o 60529	protection class IP on the front according to IEC 60529		IP00; IP20 with cover			
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical contact from the front with cover			
Ambient conditions						
installation altitude at	height above sea level	maximum	1 000 m			
ambient temperatur	e					
<ul> <li>during operatio</li> </ul>	n		-25 +60 °C			
<ul> <li>during storage</li> </ul>			-55 +80 °C			
Electromagnetic com	patibility					
conducted interfere	nce					
<ul> <li>due to burst ac</li> </ul>	cording to IEC 61000-4	-4	2 kV / 5 kHz behavior crite	rion 2		
<ul> <li>due to conduct</li> <li>61000-4-5</li> </ul>	or-earth surge accordin	g to IEC	2 kV behavior criterion 2			
<ul> <li>due to conducte</li> <li>61000-4-5</li> </ul>	or-conductor surge acco	ording to IEC	1 kV behavior criterion 2			
<ul> <li>due to high-free</li> <li>61000-4-6</li> </ul>	quency radiation accord	ing to IEC	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
field-based interfere	field-based interference according to IEC 61000-4-3		80 MHz 1 GHz 10 V/m,	behavior criterion 1		
electrostatic discha	rge according to IEC 6	61000-4-2	4 kV contact discharging /	8 kV air discharging, b	ehavior criterion 2	
conducted HF interf	ference emissions acc	ording to	Class A for industrial enviro	onment		
CISPR11 field bound HE inter	foranco omission acc	ording to	Class D for the demostic business and commercial equipments			
CISPR11				damess and commerc	dar environments	
Short-circuit protection	on, design of the fuse	link				
manufacturer's article	e number					
<ul> <li>of gS fuse for semiconductor protection at NH</li> </ul>			<u>3NE1813-0;</u> These fuses have a smaller rated current than the			
design usable	6		semiconductor relays	semiconductor relays		
<ul> <li>of full range R fuse link for semiconductor protection at cylindrical design usable</li> </ul>		<u>55E1320</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at NH design usable</li> </ul>			<u>3NE8015-1</u>			
<ul> <li>of back-up R fuse link for semiconductor protection</li> </ul>		3NC1016; These fuses have a smaller rated current than the				
at cylindrical design 10 x 38 mm usable		semiconductor relays				
<ul> <li>of back-up R fuse link for semiconductor protection</li> <li>at evaluation design 14 x 51 mm usable</li> </ul>		<u>3NC1425</u>				
<ul> <li>of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable</li> </ul>		<u>3NC2220</u>				
manufacturer's article	e number of the aG fuse					
at NH design usable		3NA6801: These fuses have a smaller rated current than the				
J. J		semiconductor relays <u>3NW6101-1</u> ; These fuses have a smaller rated current than the				
<ul> <li>at cylindrical design 14 x 51 mm usable</li> </ul>						
manufacturaria artiala numbar		semiconductor relays				
of NEOZED fuse usable		5SE2313-2A; These fuses have a smaller rated current than the				
			semiconductor relays			
Certificates/ approval	S					
General Product Ap	oproval			EMC	Declaration of Conformity	
	Confirmation			^		
(SP	<u>commutor</u>	- 1	CO <b>r</b>	<i>κ</i> λ	UK	
			נחנ	Ś		
				RCM		
CSA		UR				
CSA		UR				
CSA		UR			<b>C</b> H	
Declaration of	Test Certificates	ur			-	
Declaration of Conformity	Test Certificates	ur				



<u>Type Test Certific-</u> <u>ates/Test Report</u> **Confirmation** 



## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2120-3AA24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2120-3AA24

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2120-3AA24

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bildb/cax\_de.aspx?mlfb=3RF2120-3AA24&lang=en">http://www.automation.siemens.com/bildb/cax\_de.aspx?mlfb=3RF2120-3AA24&lang=en</a>







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2/10/2023